

Welcome to CS 106

Winter 2020

Course Outline and Webpage

We will walk through:

- Course Outline on LEARN

<https://learn.uwaterloo.ca/d2l/home>

- Course Website

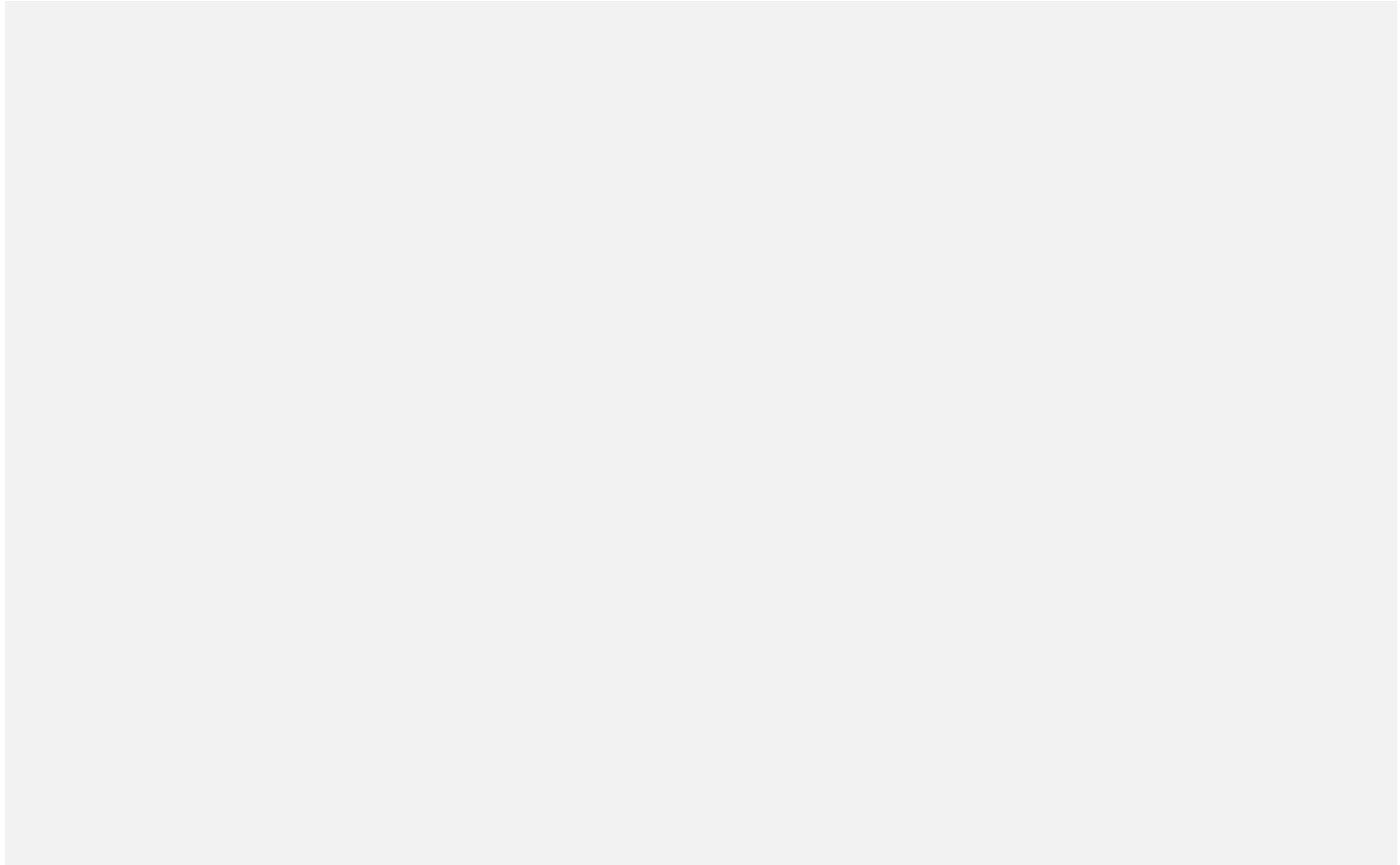
<https://www.student.cs.uwaterloo.ca/~cs106/Winter2020/>

iClicker





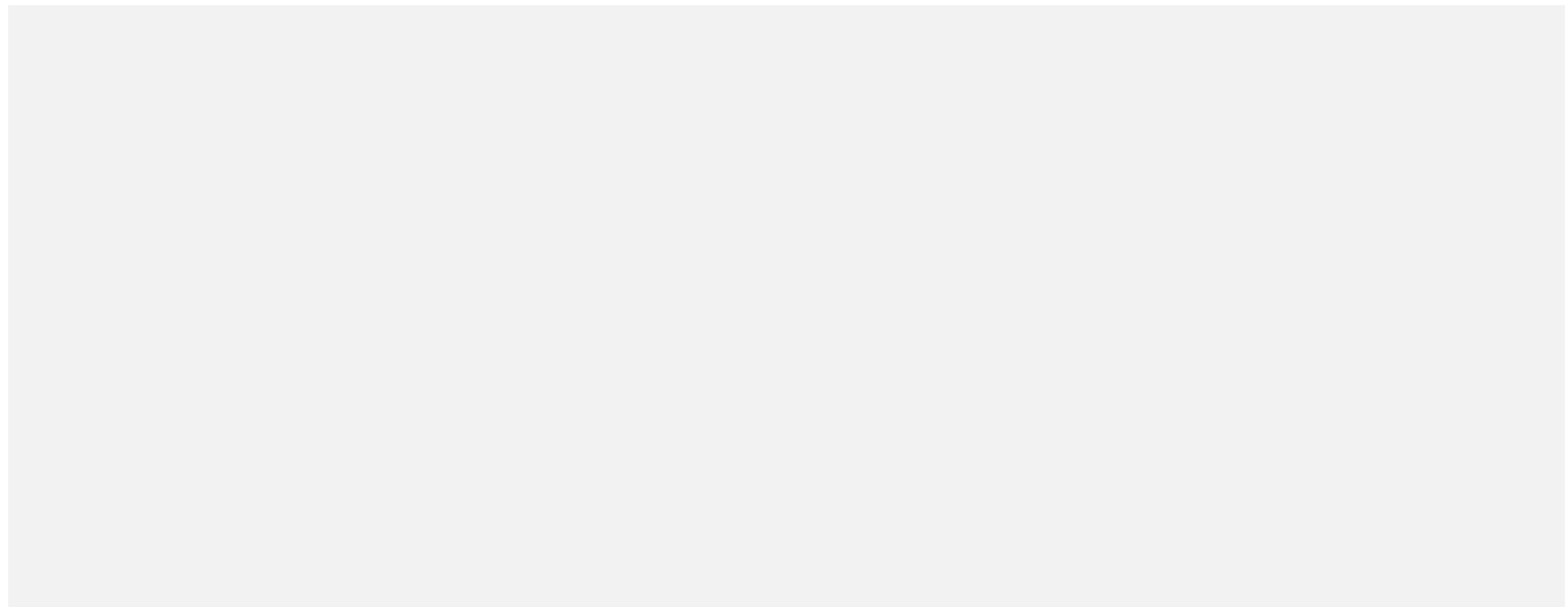
Do you have your clicker
with you today?



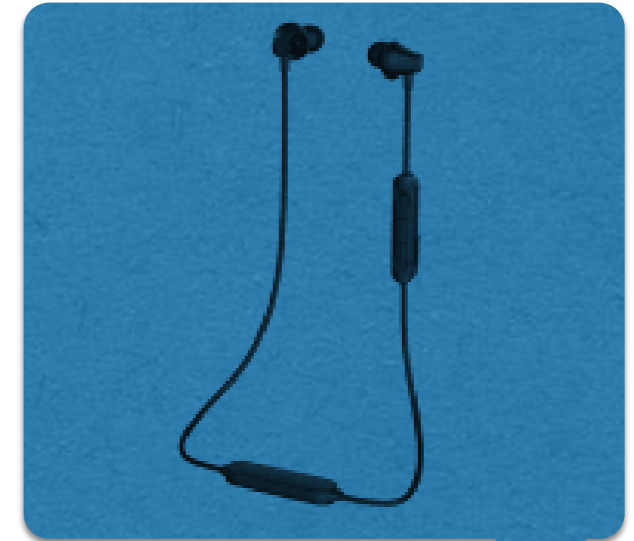


Do labs start today,
Monday January 6, 2020?

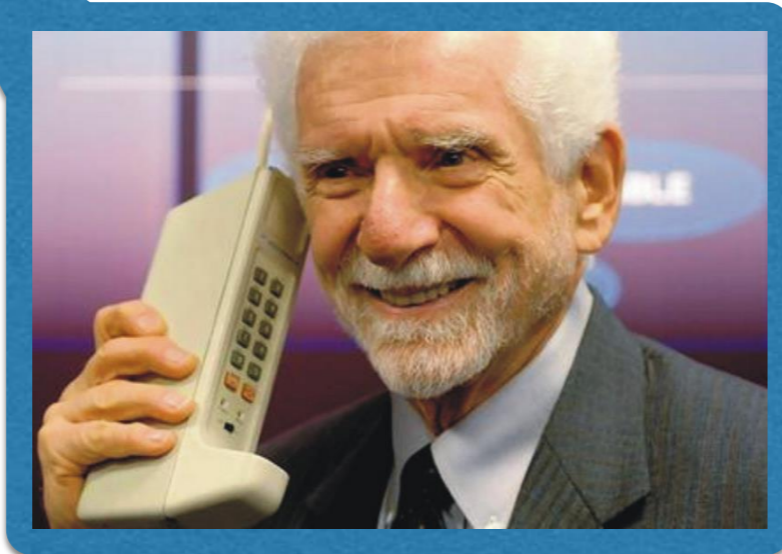
Hint: The answer is “yes”.



Technology in class



Bad idea



Good idea



The Pen Is Mightier Than the Keyboard: Advantages of Longhand Over Laptop Note Taking



Pam A. Mueller¹ and Daniel M. Oppenheimer²

¹Princeton University and ²

In-class laptop use and its effects on student learning

Carrie B. Fried *

Winona State University, Psychology Department, 231 Phelps Hall, Winona, MN 55987, United States

with Anna Maria Fremont

24 September 2006



EPISODES

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ABOUT

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Monday September 07, 2015

Laptops in classrooms distracting students, teachers call for ban



Leave Your Laptops at the Door to My Classroom




Darren Rosenblum

ON CAMPUS JAN. 2, 2017



Leave Your Laptops at the Door to My Classroom

Focus is crucial, and we do best when monotasking:



Even disruptions of a few seconds can derail one's train of thought. Students process information better when they take notes — they don't just transcribe, as they do with laptops, but they think and record those thoughts. Laptops or tablets can undermine exam performance by 18 percent. Other studies reveal that writing by hand helps memory retention. Screens block us from connecting, whether at dinner or in a classroom. Kelly McGonigal, a psychologist and lecturer at Stanford University, says that just having a phone on a table during a meal "is sufficiently distracting to reduce empathy and rapport between two people."

Philosophy

(i.e., why you should care)

You don't have to become a computer scientist.

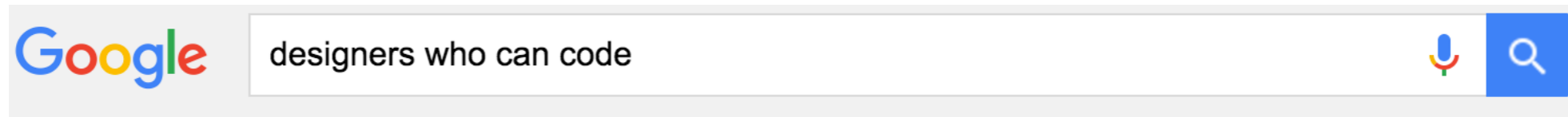
Nevertheless, there are good reasons to take the time to understand programming

Programming is an artistic medium.

Understanding programming will make you better at what you do.

GBDA Students: Future courses will rely on your programming skills.

The world needs designers who can code, or at least designers who understand the process.



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About 140,000,000 results (0.67 seconds)

[We Don't Need More Designers Who Can Code – Designer ...](#)

<https://www.designernews.co/.../50932-we-dont-need-more-designers-w...> ▾

A **designer "who can code"** and the kind of developer you've described fill totally ...
Just my thoughts :) I mean, more power to the designer who can do it all.

You visited this page on 02/01/16.

[Designers Should Design, Coders Should Code - Co.Design](#)

www.fastcodesign.com > [Co.Design](#) ▾

Sep 3, 2015 - You know the type: **designers who can** craft stunning visuals, plan winning user experiences, handle clients with panache, and **code** semantic ...

[Why The Valley Wants Designers That Can Code » UIE ...](#)

<https://www.uie.com/.../why-the-valley-wants-designers-that-can-code/> ▾

May 31, 2011 - If you're in a room filled with **designers**, bring up the topic of whether it's valuable for a **designer** to also **code**. Immediately, the room **will** divide ...

[We Don't Need More Designers Who Can Code — RE ...](#)

<https://medium.com/.../we-dont-need-more-designers-who-can-code-b81...> ▾

Dec 17, 2014 - A lot has been made of the need for **designers who can code**. A quick google search for "should designers learn to code" yields 25 million ...

[Should designers learn to code? | Webdesigner Depot](#)

www.webdesignerdepot.com/2015/04/should-designers-learn-to-code/ ▾

Apr 2, 2015 - Honestly, I'm shocked that in 2010 I'm still coming across 'web **designers**'

We don't need more designers who can code

(Jesse Weaver, medium.com, 17 December 2014)

To be straight from the outset, I don't completely disagree with the premise. However, I think the statement, "we need designers who can code" misrepresents the underlying issue...

What we should be saying is that we need more designers who know *about* code.

The reason designers should know about code, is the same reason developers should know about design. Not to become designers, but to empathize with them. To be able to speak their language, and to understand design considerations and thought processes. To know just enough to be dangerous, as they say.